SciBar & EC Shipping to FNAL

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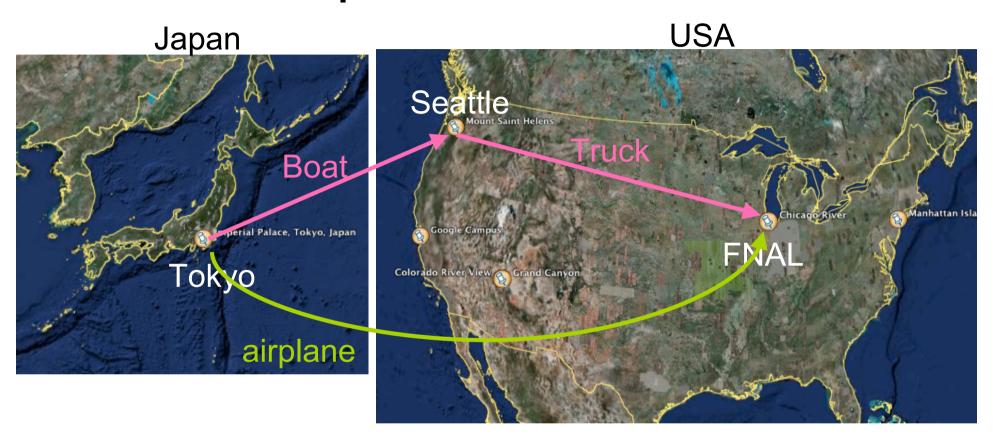
Preparation for shipment

- SciBar (Kyoto)
 - Main part (scintillator)
 - → Packing was done.
 - Detector components (PMT, elec. etc)
 - → Packing was done.
- EC (Rome and Kyoto)
 - Main part (lead&fiber module)
 - → Container is designing (production of container: ~1 week)
 - Detector components (PMT, elec. etc)
 - → Packing was done.

Preparation for shipment (cont'd)

- Cost estimations from three companies;
 - American Overseas Transport (AOT)
 - Nippon express
 - Hitachi transport system
- To minimize cost, several types of shipping methods (air/sea freight etc) are being considered.
- Procedure for customs
 - In process with help of FNAL and KEK (US-Japan office)

Transportation Methods



- Sea: [Tokyo]→boat→[Seattle]→truck→[FNAL]
- Air: [Narita]→plane→[O'Hare]→truck→[FNAL]

Cost of transportation

SciBar

- Cost of transportation from KEK to US port (Seattle/O'Hare): KEK-side money (US-JP)
- Cost of transportation from US port to FNAL: FNAL-side money (US-JP)

• EC

 Cost of transportation of EC (main part and its components): Support by Rome group

Shipping Plan

| Detector | | Shipping method |
|----------|---|-----------------|
| SciBar | Main part | Sea |
| | Detector components (electronics, fiber, PMT etc) | Air/Sea |
| EC | Main part | Sea |
| | Detector components (electronics, PMT etc) | Sea |

Cost estimations

| Detector | | Cost | |
|----------|-------------------------------|--------------------------------------|------------------------------------|
| SciBar | Main part (by sea) | Tokyo-Seattle: 2.2M yen (~\$18k) | Seattle-FNAL: 2.5M yen (~\$21k) |
| | Components (by air) | Narita-O'Hare: 1.5M yen (~\$13k) | O'Hare-FNAL: Now estimating |
| | Components (by sea) | Tokyo-Seattle: 820k yen (~\$6.8k) | Seattle-FNAL: Now estimating |
| EC | Main part (by sea) Components | Tokyo-Seattle: 884k yen (~\$7.4k) | Seattle-FNAL: Now estimating |
| | (by sea) | | |

Schedule

- SciBar main part
 - Tokyo to Seattle:
 - May(JP) → June(US)
 - Seattle to FNAL:
 - June (Seattle) → July (FNAL)
- EC main part & EC components & SciBar components
 - Tokyo to Seattle:
 - May/June (JP) → June/July (US)
 - Seattle to FNAL:
 - June/July (Seattle) → July/Aug (FNAL)

Summary

- SciBar and EC are ready to ship.
 - Packing is basically done.
 - Shipping preparation for customs is in process with help of FNAL and KEK.
- Cost & budget
 - Cost estimations are available
 - SciBar: KEK to a US port ← KEK side (US-JP)
 a US port to FNAL ← FNAL side (US-JP)
 - EC: all shipment will be supported by Rome group
- Schedule
 - SciBar main part arrived at FNAL: July
 - EC & SciBar components arrival: July Aug

Outlook

- Details of shipment is fixed soon
 - Schedule
 - Cost